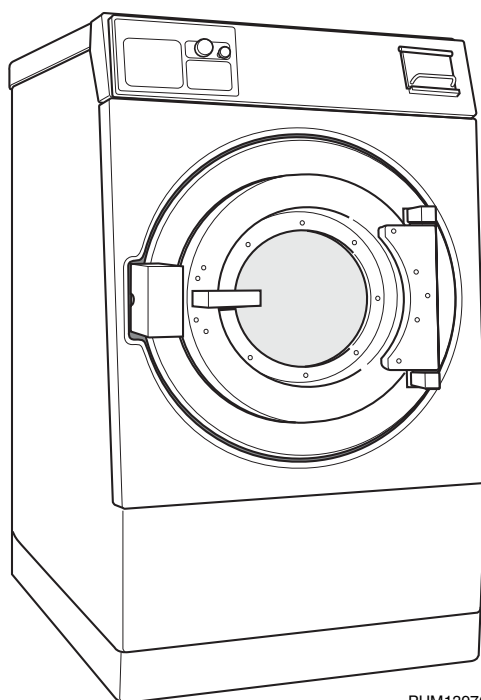


# Washer-Extractors

Pocket Hardmount Variable-Speed  
PS40 Control

Refer to Page 4 for Model Identification



PHM1397C

**Keep These Instructions for Future Reference.**

(If this machine changes ownership, this manual must accompany machine.)



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Part No. C002882  
March 2008

— **Installation/Operation Supplement** —





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# Safety Information

## Explanation of Safety Messages

Precautionary statements (“DANGER,” “WARNING,” and “CAUTION”), followed by specific instructions, are found in this manual and on machine decals. These precautions are intended for the personal safety of the operator, user, servicer, and those maintaining the machine.

	<b>DANGER</b>
<b>DANGER indicates the presence of a hazard that will cause severe personal injury, death, or substantial property damage if the danger is ignored.</b>	

	<b>WARNING</b>
<b>WARNING indicates the presence of a hazard that can cause severe personal injury, death, or substantial property damage if the warning is ignored.</b>	


	<b>CAUTION</b>
<b>CAUTION indicates the presence of a hazard that will or can cause minor personal injury or property damage if the caution is ignored.</b>	

Additional precautionary statements (“IMPORTANT” and “NOTE”) are followed by specific instructions.

**IMPORTANT:** The word “IMPORTANT” is used to inform the reader of specific procedures where minor machine damage will occur if the procedure is not followed.

**NOTE:** The word “NOTE” is used to communicate installation, operation, maintenance or servicing information that is important but not hazard related.

## Important Safety Instructions

	<b>WARNING</b>
<b>To reduce the risk of fire, electric shock, serious injury or death to persons when using your washer, follow these basic precautions:</b>	
W023	

1. Read all instructions before using the washer.
2. Refer to the GROUNDING INSTRUCTIONS in the INSTALLATION manual for the proper grounding of the washer.
3. Do not wash textiles that have been previously cleaned in, washed in, soaked in, or spotted with gasoline, kerosene, waxes, cooking oils, dry-cleaning solvents, or other flammable or explosive substances as they give off vapors that could ignite or explode.
4. Do not add gasoline, dry-cleaning solvents, or other flammable or explosive substances to the wash water. These substances give off vapors that could ignite or explode.
5. Under certain conditions, hydrogen gas may be produced in a hot water system that has not been used for two weeks or more. **HYDROGEN GAS IS EXPLOSIVE.** If the hot water system has not been used for such a period, before using a washing machine or combination washer-dryer, turn on all hot water faucets and let the water flow from each for several minutes. This will release any accumulated hydrogen gas. The gas is flammable, do not smoke or use an open flame during this time.
6. Do not allow children to play on or in the washer. Close supervision of children is necessary when the washer is used near children. This is a safety rule for all appliances.
7. Before the washer is removed from service or discarded, remove the door to the washing compartment.
8. Do not reach into the washer if the wash drum is moving.

9. Do not install or store the washer where it will be exposed to water and/or weather.
10. Do not tamper with the controls.
11. Do not repair or replace any part of the washer, or attempt any servicing unless specifically recommended in the user-maintenance instructions or in published user-repair instructions that the user understands and has the skills to carry out.
12. To reduce the risk of an electric shock or fire, DO NOT use an extension cord or an adapter to connect the washer to the electrical power source.
13. Use washer only for its intended purpose, washing textiles.
14. Never wash machine parts or automotive parts in the machine. This could result in serious damage to the basket.
15. ALWAYS disconnect the washer from electrical supply before attempting any service. Disconnect the power cord by grasping the plug, not the cord.
16. Install the washer according to the INSTALLATION INSTRUCTIONS. All connections for water, drain, electrical power and grounding must comply with local codes and be made by licensed personnel when required.
17. To reduce the risk of fire, textiles which have traces of any flammable substances such as vegetable oil, cooking oil, machine oil, flammable chemicals, thinner, etc., or anything containing wax or chemicals such as in mops and cleaning cloths, must not be put into the washer. These flammable substances may cause the fabric to catch on fire by itself.
18. Do not use fabric softeners or products to eliminate static unless recommended by the manufacturer of the fabric softener or product.
19. Keep washer in good condition. Bumping or dropping the washer can damage safety features. If this occurs, have washer checked by a qualified service person.
20. Be sure water connections have a shut-off valve and that fill hose connections are tight. CLOSE the shut-off valves at the end of each wash day.
21. Loading door MUST BE CLOSED any time the washer is to fill, tumble or spin. DO NOT bypass the loading door switch by permitting the washer to operate with the loading door open.
22. Always read and follow manufacturer's instructions on packages of laundry and cleaning aids. Heed all warnings or precautions. To reduce the risk of poisoning or chemical burns, keep them out of the reach of children at all times (preferably in a locked cabinet).
23. Always follow the fabric care instructions supplied by the textile manufacturer.
24. Never operate the washer with any guards and/or panels removed.
25. DO NOT operate the washer with missing or broken parts.
26. DO NOT bypass any safety devices.
27. Failure to install, maintain, and/or operate this washer according to the manufacturer's instructions may result in conditions which can produce bodily injury and/or property damage.

**NOTE: The WARNINGS and IMPORTANT SAFETY INSTRUCTIONS appearing in this manual are not meant to cover all possible conditions and situations that may occur. Common sense, caution and care must be exercised when installing, maintaining, or operating the washer.**

Any problems or conditions not understood should be reported to the dealer, distributor, service agent or the manufacturer.

## Model Identification

Information in this manual is applicable to these models:

	Medium Speed		High Speed	
<b>40 Pound</b>	CP040PMN1 CP040PMQ1 CP040PMX1 CPC40M IP040PMN1	IP040PMQ1 IP040PMX1 IPH40M IPH180	CP040PHN1 CP040PHQ1 CP040PHX1 CPC40H IP040PHN1	IP040PHQ1 IP040PHX1 IPH40H JP040PHN1 JP040PHQ1
<b>60 Pound</b>	CP060PMN1 CP060PMQ1 CP060PMX1 CPC60M IP060PMN1	IP060PMQ1 IP060PMX1 IPH60M IPH270 JP060PMQ1	CP060PHN1 CP060PHQ1 CP060PHX1 CPC60H IP060PHN1	IP060PHQ1 IP060PHX1 IPH60H JP060PHN1 JP060PHQ1
<b>80 Pound</b>	CP080PMN1 CP080PMQ1 CPC80M IP080PMN1	IP080PMQ1 IPH80M IPH370	CP080PHN1 CP080PHQ1 CPC80H IP080PHN1	IP080PHQ1 IPH80H JP080PHN1 JP080PHQ1
<b>100 Pound</b>	CP100PMN1 CP100PMQ1 CPC100M IP100PMN1	IP100PMQ1 IPH100M IPH460 JP100PMQ1	CP100PHN1 CP100PHQ1 CPC100H IP100PHN1	IP100PHQ1 IPH100H JP100PHN1 JP100PHQ1
<b>125 Pound</b>	Not Applicable		CP125PHN1 CP125PHQ1 CPC125H IP125PHN1	IP125PHQ1 IPH125H IPH570 JP125PHN1
<b>140 Pound</b>	CP140PMN1 CP140PMQ1 CPC140M IP140PMN1	IP140PMQ1 IPH140M IPH640 JP140PMQ1	CP140PHN1 CP140PHQ1 CPC140H IP140PHN1	IP140PHQ1 IPH140H JP140PHN1 JP140PHQ1
<b>175 Pound</b>	Not Applicable		CP175PHN1 CPC175H IP175PHN1	IPH175H IPH790

# Specifications and Dimensions

## High Speed Models

Models							
Specifications	40H	60H	80H	100H	125H	140H	175H
<b>Overall Dimensions</b>							
Overall Width, mm (in.)	813 (32)	876 (34.5)	1080 (42.5)	1080 (42.5)	1430 (56.3)	1430 (56.3)	1430 (56.3)
Overall Height, mm (in.)	1448 (57)	1590 (62.6)	1778 (70)	1778 (70)	1958 (77.1)	1958 (77.1)	1958 (77.1)
Overall Depth, mm (in.)	1158 (45.6)	1213 (47.8)	1306 (51.4)	1433 (56.4)	1425 (56.1)	1502 (59.1)	1626 (64)
<b>Weight and Shipping Information</b>							
Net Weight, kg (lbs.)	768.2 (1690)	815.9 (1795)	875.5 (1926)	985 (2167)	1247 (2749)	1375.9 (3027)	1489.5 (3277)
Domestic Shipping Weight, kg (lbs.)	804.5 (1770)	861.3 (1895)	920.9 (2026)	1030.5 (2267)	1292 (2849)	1421.3 (3127)	1535 (3377)
Domestic Shipping Volume, m <sup>3</sup> (ft. <sup>3</sup> )	1.78 (63)	2.18 (76.9)	3.11 (110)	3.45 (122)	4.53 (160)	4.73 (167)	5.16 (179)
<b>Wash Cylinder Information</b>							
Cylinder Diameter, mm (in.)	686 (27)	787 (31)	940 (37)	940 (37)	1092 (43)	1092 (43)	1092 (43)
Cylinder Depth, mm (in.)	483 (19)	559 (22)	533 (21)	660 (26)	610 (24)	686 (27)	813 (32)
Cylinder Volume, l (ft. <sup>3</sup> )	178.3 (6.3)	271.7 (9.6)	370.7 (13.1)	458.5 (16.2)	569.2 (20.1)	642.4 (22.7)	759.9 (26.8)
Perforation Size, mm (in.)	4.83 (0.19)	4.83 (0.19)	4.83 (0.19)	4.83 (0.19)	4.83 (0.19)	4.83 (0.19)	4.83 (0.19)
Cylinder Capacity 1:10 Fill Ratio, kg (lbs.)	17.8 (39.3)	27.2 (60)	37 (81.6)	45.9 (101)	57 (125)	64.3 (141.7)	79.5 (175)
<b>Door Opening Information</b>							
Door Opening Size, mm (in.)	381 (15)	432 (17)	508 (20)	508 (20)	622 (24.5)	622 (24.5)	622 (24.5)
Height of Door Bottom Above Floor, mm (in.)	648 (25.5)	730 (28.8)	752 (29.6)	765 (30.1)	837 (34)	871 (34.3)	884 (34.8)
<b>Drain System</b>							
Overflow Size, mm (in.)	38.1 (1.5)	38.1 (1.5)	38.1 (1.5)	38.1 (1.5)	76.2 (3)	76.2 (3)	76.2 (3)
Drain Outlet Size, mm (in.)	76.2 (3)	76.2 (3)	76.2 (3)	76.2 (3)	76.2 (3)	76.2 (3)	76.2 (3)
Number of Drain Outlets, (std/opt)	1/2	1/2	1/2	1/2	1/2	1/2	1/2

All specifications are subject to change without notification.

Table 1 (continued)

Table 1 (continued)

Models							
Specifications	40H	60H	80H	100H	125H	140H	175H
<b>Water Inlet</b>							
Connection Size	3/4 NPT	3/4 NPT	3/4 NPT	3/4 NPT	3/4 NPT	1-1/4 NPT	1-1/4 NPT
Number of Inlets, (std/opt)	2/3	2/3	2/3	2/3	2/3	2/3	2/3
<b>Chemical Supply System</b>							
Number of Dry Chemical Compartments, (std/opt)	1/5	1/5	1/5	1/5	1/5	1/5	1/5
Number of Liquid Supply Connections, (std/opt)	6/12	6/12	6/12	6/12	6/12	6/12	6/12
<b>Cylinder Speeds/Centrifugal Force Data</b>							
Low Wash Speed, G-Force (RPM)	0.014 (6)	0.016 (6)	0.019 (6)	0.019 (6)	0.022 (6)	0.022 (6)	0.022 (6)
Wash Speed, G-Force (RPM)	0.8 (46)	0.8 (43)	0.8 (39)	0.8 (39)	0.8 (36)	0.8 (36)	0.8 (36)
Balance Speed, G-Force (RPM)	2 (72)	2 (67)	2 (62)	2 (62)	2 (57)	2 (57)	2 (57)
Low Extract Speed, G-Force (RPM)	100 (511)	100 (477)	100 (437)	100 (437)	100 (405)	100 (405)	100 (405)
Medium Extract Speed, G-Force (RPM)	140 (605)	140 (564)	140 (516)	140 (516)	140 (479)	140 (479)	140 (479)
High Extract Speed, G-Force (RPM)	230 (775)	230 (723)	230 (662)	230 (662)	200 (573)	200 (573)	200 (573)
Maximum SmartSpin Speed, G-Force (RPM)	300 (885)	300 (826)	300 (756)	300 (756)	300 (701)	250 (640)	250 (640)
<b>Drive Train Information</b>							
Number of Motors In Drive Train	1	1	1	1	1	1	1
Drive Motor Power, kW (hp)	2.3 (3)	3.7 (5)	5.6 (7.5)	5.6 (7.5)	7.5 (10)	5.6 (7.5)	11.2 (15)
<b>Balance Detection</b>							
Vibration Switch Installed	STD	STD	STD	STD	STD	STD	STD
<b>Electrical Heating (Optional)</b>							
Total Electrical Heating Capacity, kW	21.5@240V 21.5@480V	32.2@240V 21.5@480V	32.2@240V 21.5@480V	32.2@240V 21.5@480V	Not Applicable	Not Applicable	Not Applicable
Number of Electrical Heating Elements	6 – 240V 6 – 480V	9 – 240V 6 – 480V	9 – 240V 6 – 480V	9 – 240V 6 – 480V	Not Applicable	Not Applicable	Not Applicable
Electrical Heating Element Size, kW	3	3	3	3	Not Applicable	Not Applicable	Not Applicable
<b>Electrical Connections (Non-electric Heated Models)</b>							

Table 1 (continued)



Table 1 (continued)

Specifications	40H	60H	80H	100H	125H	140H	175H
Max. Circuit Breaker Size (200-240V, 3P)	15	15	20	20	30	30	Not Applicable
Max. Circuit Breaker Size (380-480V, 3P)	15	15	15	15	15	15	20

All specifications are subject to change without notification.

Table 1

## Medium Speed Models

Models					
Specifications	40M	60M	80M	100M	140M
<b>Overall Dimensions</b>					
Overall Width, mm (in.)	813 (32)	876 (34.5)	1080 (42.5)	1080 (42.5)	1276 (50.3)
Overall Height, mm (in.)	1448 (57)	1590 (62.6)	1778 (70)	1778 (70)	1958 (77.1)
Overall Depth, mm (in.)	1158 (45.6)	1213 (47.8)	1306 (51.4)	1433 (56.4)	1502 (59.1)
<b>Weight and Shipping Information</b>					
Net Weight, kg (lbs.)	499 (110)	533 (1175)	740 (1630)	804 (1770)	1044 (2300)
Domestic Shipping Weight, kg (lbs.)	536 (1180)	567 (1250)	785 (1730)	849 (1870)	1112 (2450)
Domestic Shipping Volume, m <sup>3</sup> (ft. <sup>3</sup> )	1.78 (63)	2.18 (76.9)	3.11 (110)	3.45 (122)	4.73 (167)
<b>Wash Cylinder Information</b>					
Cylinder Diameter, mm (in.)	686 (27)	787 (31)	940 (37)	940 (37)	1092 (43)
Cylinder Depth, mm (in.)	483 (19)	559 (22)	533 (21)	660 (26)	686 (27)
Cylinder Volume, l (ft. <sup>3</sup> )	178.3 (6.3)	271.7 (9.6)	370.7 (13.1)	458.5 (16.2)	642.4 (22.7)
Perforation Size, mm (in.)	4.83 (0.19)	4.83 (0.19)	4.83 (0.19)	4.83 (0.19)	4.83 (0.19)
Cylinder Capacity 1:10 Fill Ratio, kg (lbs.)	17.8 (39.3)	27.2 (60)	37 (81.6)	45.9 (101)	64.3 (141.7)
<b>Door Opening Information</b>					
Door Opening Size, mm (in.)	381 (15)	432 (17)	508 (20)	508 (20)	622 (24.5)
Height of Door Bottom Above Floor, mm (in.)	648 (25.5)	730.3 (28.8)	751.8 (29.6)	765 (30.1)	871.2 (34.3)
<b>Drain System</b>					
Overflow Size, mm (in.)	38.1 (1.5)	38.1 (1.5)	38.1 (1.5)	38.1 (1.5)	76.2 (3)
Drain Outlet Size, mm (in.)	76.2 (3)	76.2 (3)	76.2 (3)	76.2 (3)	76.2 (3)
Number of Drain Outlets, (std/opt)	1/2	1/2	1/2	1/2	1/2
<b>Water Inlet</b>					
Connection Size	3/4 NPT	3/4 NPT	3/4 NPT	3/4 NPT	1-1/4 NPT
Number of Inlets, (std/opt)	2/3	2/3	2/3	2/3	2/3

All specifications are subject to change without notification.

Table 2 (continued)

Table 2 (continued)

	<b>Models</b>				
<b>Specifications</b>	<b>40M</b>	<b>60M</b>	<b>80M</b>	<b>100M</b>	<b>140M</b>
<b>Chemical Supply System</b>					
Number of Dry Chemical compartments, (std/opt)	1/5	1/5	1/5	1/5	1/5
Number of Liquid Supply Connections, (std/opt)	6/12	6/12	6/12	6/12	6/12
Liquid Supply Connection Size	1/2 NPT	1/2 NPT	1/2 NPT	1/2 NPT	1/2 NPT
<b>Drive Train Information</b>					
Number of Motors In Drive Train	1	1	1	1	1
Drive Motor Power, kW (hp)	2.3 (3)	2.3 (3)	3.7 (5)	3.7 (5)	5.6 (7.5)
<b>Cylinder Speeds/Centrifugal Force Data</b>					
Low Wash Speed, G-Force (RPM)	0.014 (6)	0.016 (6)	0.019 (6)	0.019 (6)	0.022 (6)
Wash Speed, G-Force (RPM)	0.8 (46)	0.8 (43)	0.8 (39)	0.8 (39)	0.8 (36)
Balance Speed, G-Force (RPM)	2 (72)	2 (67)	2 (62)	2 (62)	2 (57)
Extract Speed, G-Force (RPM)	100 (511)	100 (477)	100 (437)	100 (437)	100 (405)
Maximum SmartSpin Speed, G-Force (RPM)	150 (625)	150 (585)	150 (535)	150 (535)	152 (500)
<b>Balance Detection</b>					
Vibration Switch Installed	STD	STD	STD	STD	STD
<b>Electrical Heating (Optional)</b>					
Total Electrical Heating Capacity, kW	21.5@240V 21.5@480V	32.2@240V 21.5@480V	32.2@240V 21.5@480V	32.2@240V 21.5@480V	Not Applicable
Number of Electrical Heating Elements	6 – 240V 6 – 480V	9 – 240V 6 – 480V	9 – 240V 6 – 480V	9 – 240V 6 – 480V	Not Applicable
Electrical Heating Element Size, kW	3	3	3	3	Not Applicable
<b>Electrical Connections (Non-electric Heated Models)</b>					
Max. Circuit Breaker Size (200-240V, 3P)	15	15	15	15	20
Max. Circuit Breaker Size (380-480V, 3P)	15	15	15	15	15

All specifications are subject to change without notification.

Table 2

## Machine Dimensions

### *Dimensional Clearances*

Allow a minimum of 600 mm (24 in.) at the rear and 450 mm (18 in.) at the sides for maintenance, inspection, and adjustment. Allow at least 450 mm (18 in.) between machines in multiple installations. Machine dimensions are indicated in *Figure 1* through *Figure 7*. For minimum clearances, refer to *Figure 9*.

**NOTE:** The dimensions shown here are for planning purposes only. They are approximate and subject to normal manufacturing tolerances. If exact dimensions are required for construction purposes, contact the distributor or the manufacturer. We reserve the right to make changes at any time without notice

40 Pound Models

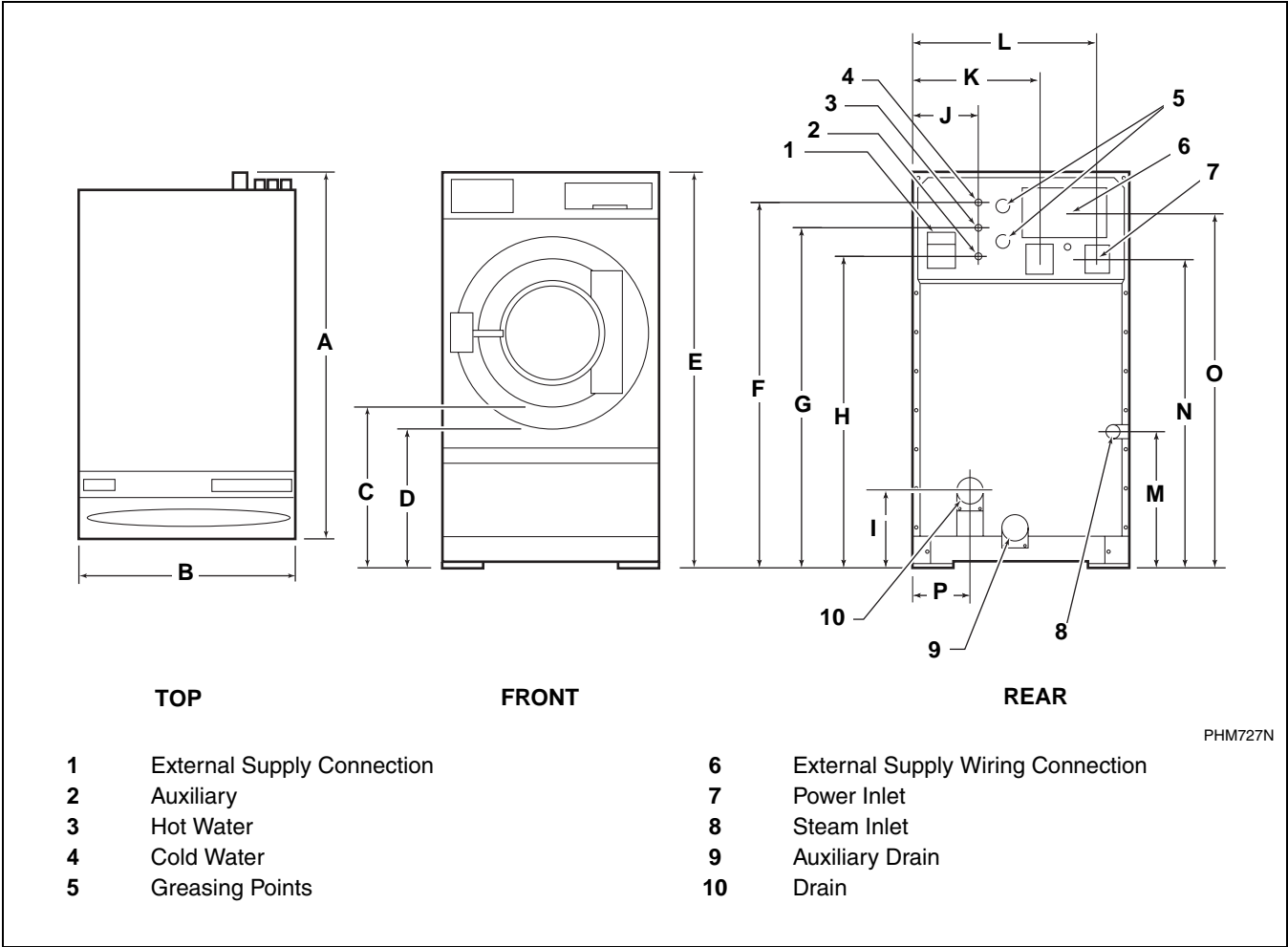


Figure 1

<b>A</b>	1158 mm (45.6 in.)	<b>I</b>	297 mm (11.7 in.)
<b>B</b>	813 mm (32 in.)	<b>J</b>	260 mm (10.25 in.)
<b>C</b>	648 mm (25.5 in.)	<b>K</b>	491 mm (19.35 in.)
<b>D</b>	572 mm (22.5 in.)	<b>L</b>	709 mm (27.93 in.)
<b>E</b>	1448 mm (57 in.)	<b>M</b>	554 mm (21.8 in.)
<b>F</b>	1321 mm (52 in.)	<b>N</b>	1092 mm (43 in.)
<b>G</b>	1219 mm (48 in.)	<b>O</b>	1306 mm (51.4 in.)
<b>H</b>	1118 mm (44 in.)	<b>P</b>	226 mm (8.88 in.)

Table 3

60 Pound Models

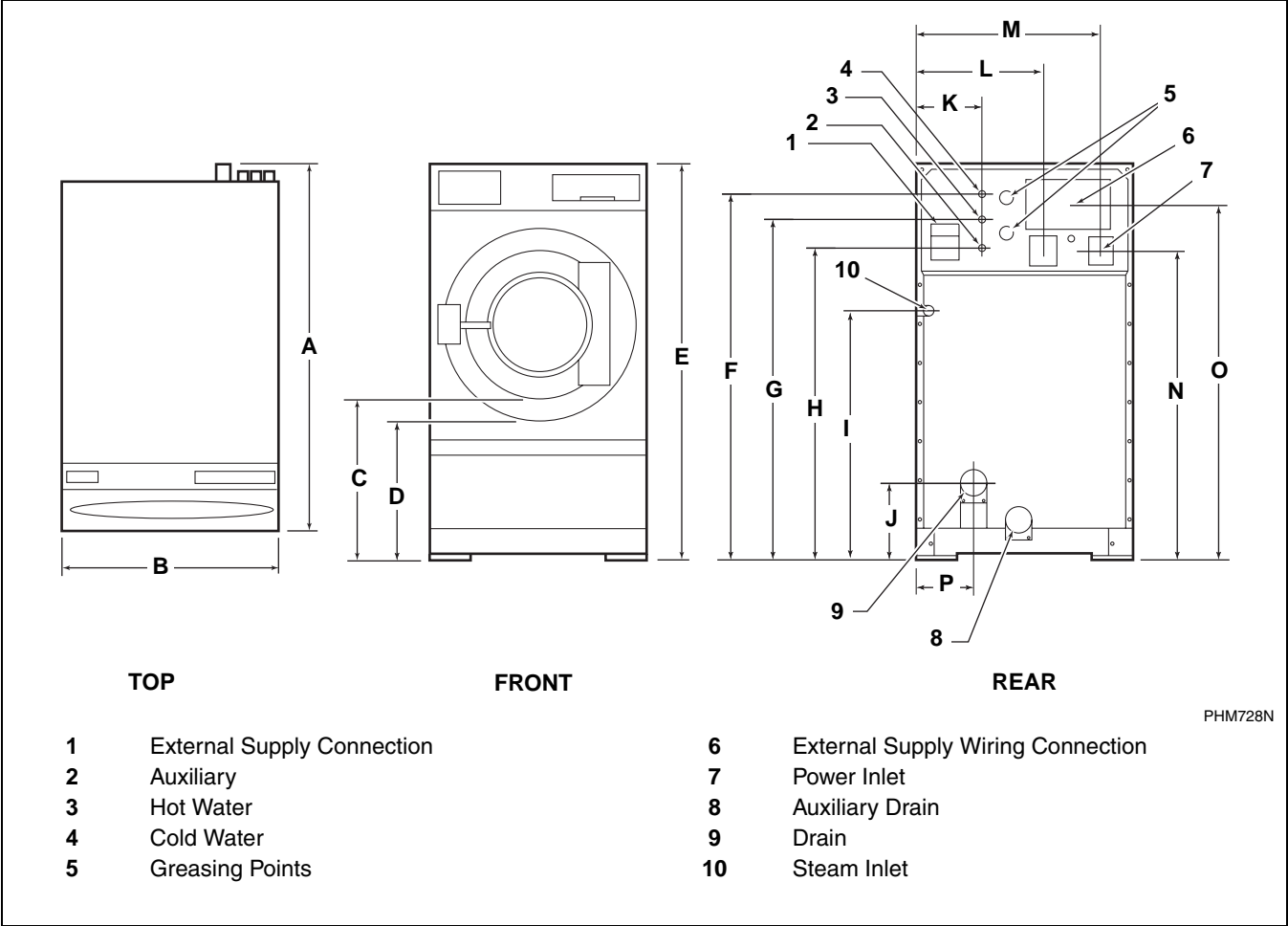


Figure 2

<b>A</b>	1213 mm (47.8 in.)	<b>I</b>	978 mm (38.5 in.)
<b>B</b>	876 mm (34.5 in.)	<b>J</b>	297 mm (11.7 in.)
<b>C</b>	732 mm (28.8 in.)	<b>K</b>	292 mm (11.5 in.)
<b>D</b>	656 mm (25.8 in.)	<b>L</b>	536 mm (21.1 in.)
<b>E</b>	1590 mm (62.6 in.)	<b>M</b>	754 mm (29.69 in.)
<b>F</b>	1464 mm (57.62 in.)	<b>N</b>	1234 mm (48.6 in.)
<b>G</b>	1362 mm (53.62 in.)	<b>O</b>	1450 mm (57.1 in.)
<b>H</b>	1260 mm (49.62 in.)	<b>P</b>	245 mm (9.63 in.)

Table 4

80 Pound Models

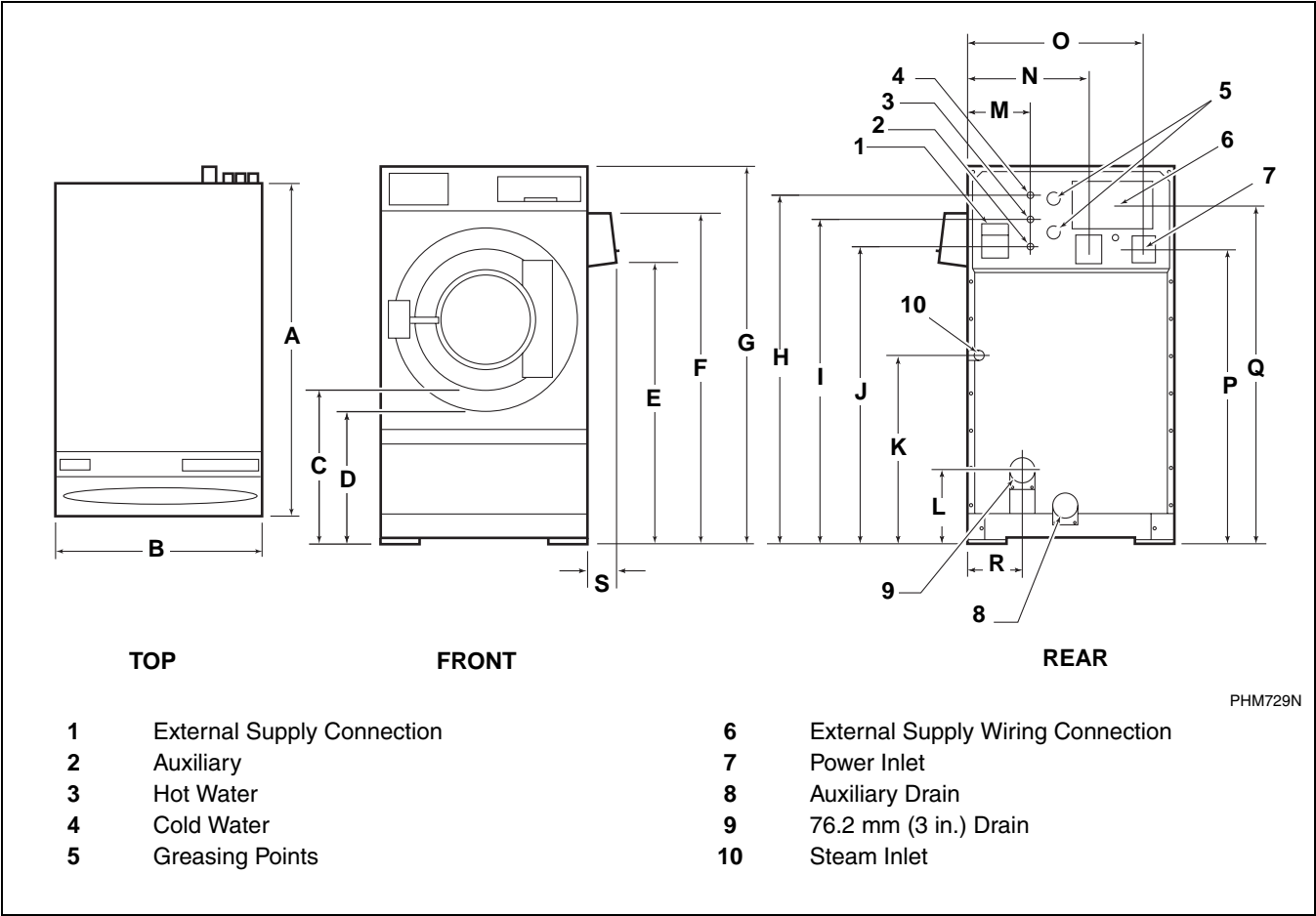


Figure 3

<b>A</b>	1306 mm (51.4 in.)	<b>K</b>	975 mm (38.4 in.)
<b>B</b>	1080 mm (42.5 in.)	<b>L</b>	297 mm (11.7 in.)
<b>C</b>	752 mm (29.6 in.)	<b>M</b>	311 mm (12.25 in.)
<b>D</b>	676 mm (26.6 in.)	<b>N</b>	737 mm (29 in.)
<b>E</b>	1321 mm (52 in.)	<b>O</b>	958 mm (37.7 in.)
<b>F</b>	1562 mm (61.05 in.)	<b>P</b>	1422 mm (56 in.)
<b>G</b>	1778 mm (70 in.)	<b>Q</b>	1636 mm (64.4 in.)
<b>H</b>	1678 mm (66 in.)	<b>R</b>	305 mm (12 in.)
<b>I</b>	1575 mm (62 in.)	<b>S</b>	152 mm (6 in.)
<b>J</b>	1473 mm (58 in.)		

Table 5

# 100 Pound Models

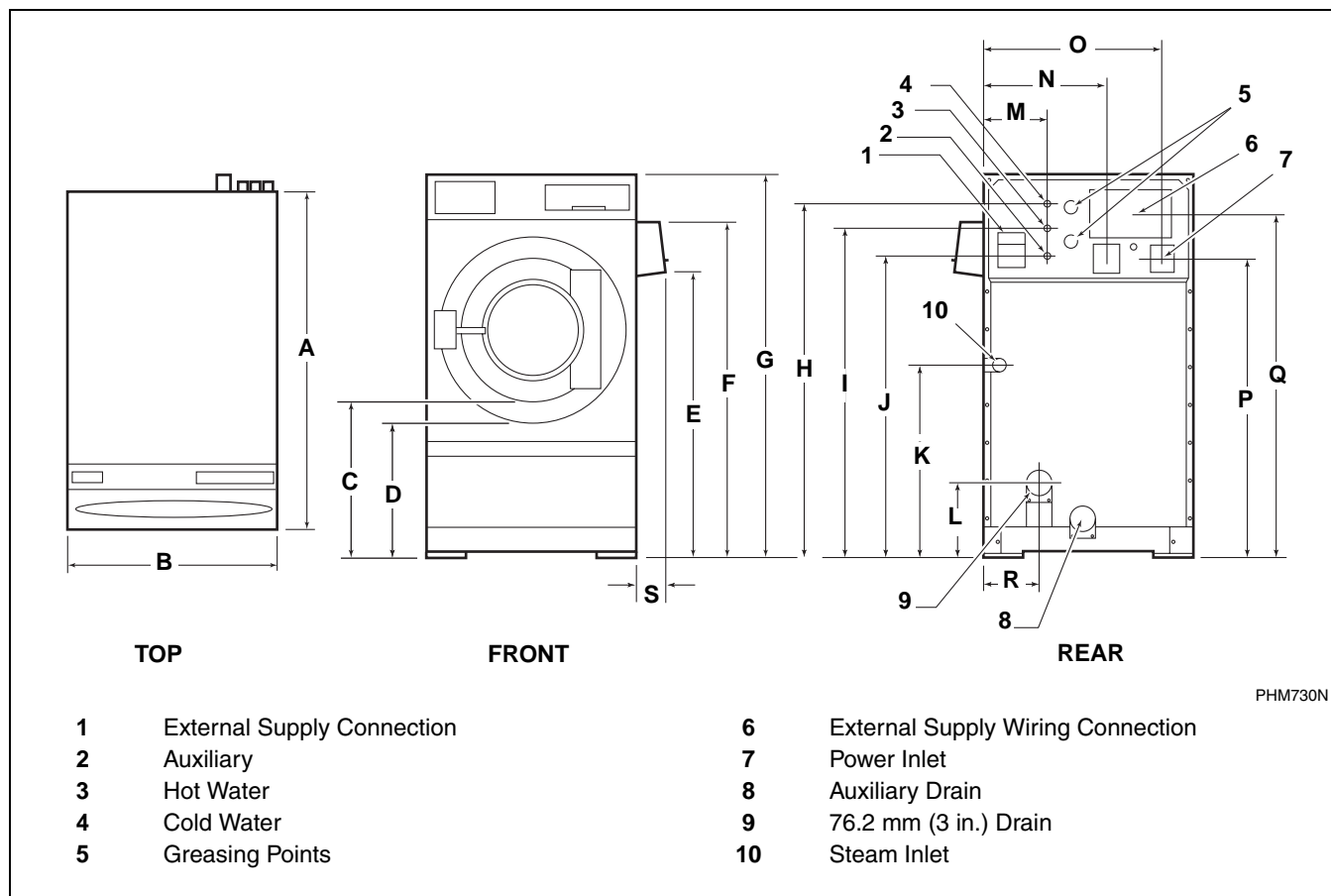


Figure 4

<b>A</b>	1433 mm (56.4 in.)	<b>K</b>	975 mm (38.4 in.)
<b>B</b>	1080 mm (42.5 in.)	<b>L</b>	297 mm (11.7 in.)
<b>C</b>	765 mm (30.12 in.)	<b>M</b>	311 mm (12.25 in.)
<b>D</b>	689 mm (27.13 in.)	<b>N</b>	737 mm (29 in.)
<b>E</b>	1321 mm (52 in.)	<b>O</b>	958 mm (37.7 in.)
<b>F</b>	1562 mm (61.05 in.)	<b>P</b>	1422 mm (56 in.)
<b>G</b>	1778 mm (70 in.)	<b>Q</b>	1636 mm (64.4 in.)
<b>H</b>	1676 mm (66 in.)	<b>R</b>	305 mm (12 in.)
<b>I</b>	1575 mm (62 in.)	<b>S</b>	152 mm (6 in.)
<b>J</b>	1473 mm (58 in.)		

Table 6



125 Pound Models

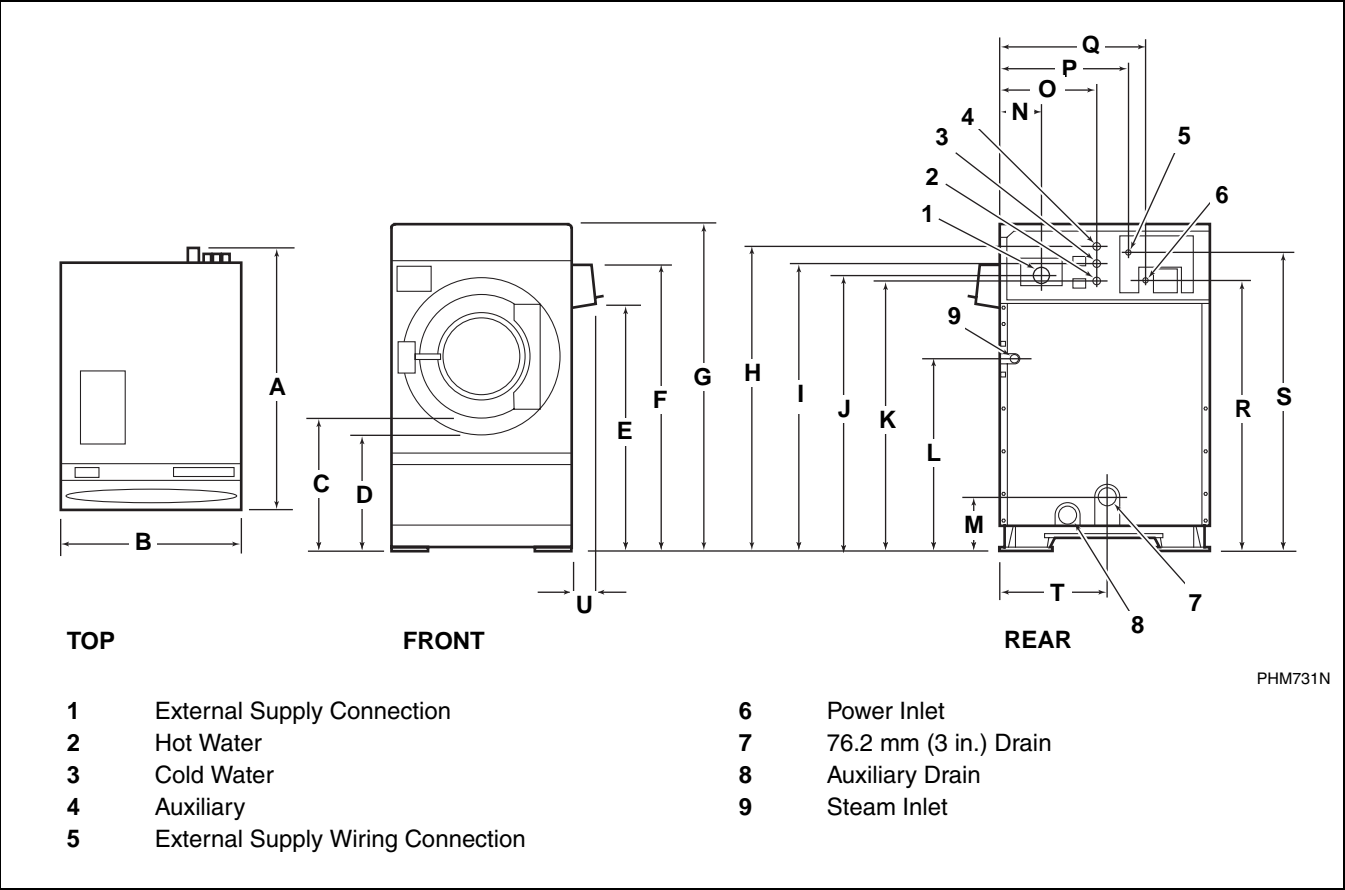


Figure 5

<b>A</b>	1425 mm (56.1 in.)	<b>L</b>	1149 mm (45.3 in.)
<b>B</b>	1278 mm (50.3 in.)	<b>M</b>	294 mm (11.6 in.)
<b>C</b>	871 mm (34.3 in.)	<b>N</b>	171 mm (6.7 in.)
<b>D</b>	795 mm (31.3 in.)	<b>O</b>	460 mm (18.1 in.)
<b>E</b>	1473 mm (58 in.)	<b>P</b>	732 mm (28.8 in.)
<b>F</b>	1717 mm (67.6 in.)	<b>Q</b>	789 mm (31.1 in.)
<b>G</b>	1958 mm (77.1 in.)	<b>R</b>	1621 mm (63.8 in.)
<b>H</b>	1821 mm (71.7 in.)	<b>S</b>	1784 mm (70.2 in.)
<b>I</b>	1719 mm (67.7 in.)	<b>T</b>	492 mm (19.4 in.)
<b>J</b>	1638 mm (64.5 in.)	<b>U</b>	152 mm (6 in.)
<b>K</b>	1618 mm (63.7 in.)		

Table 7

# 140 Pound Models

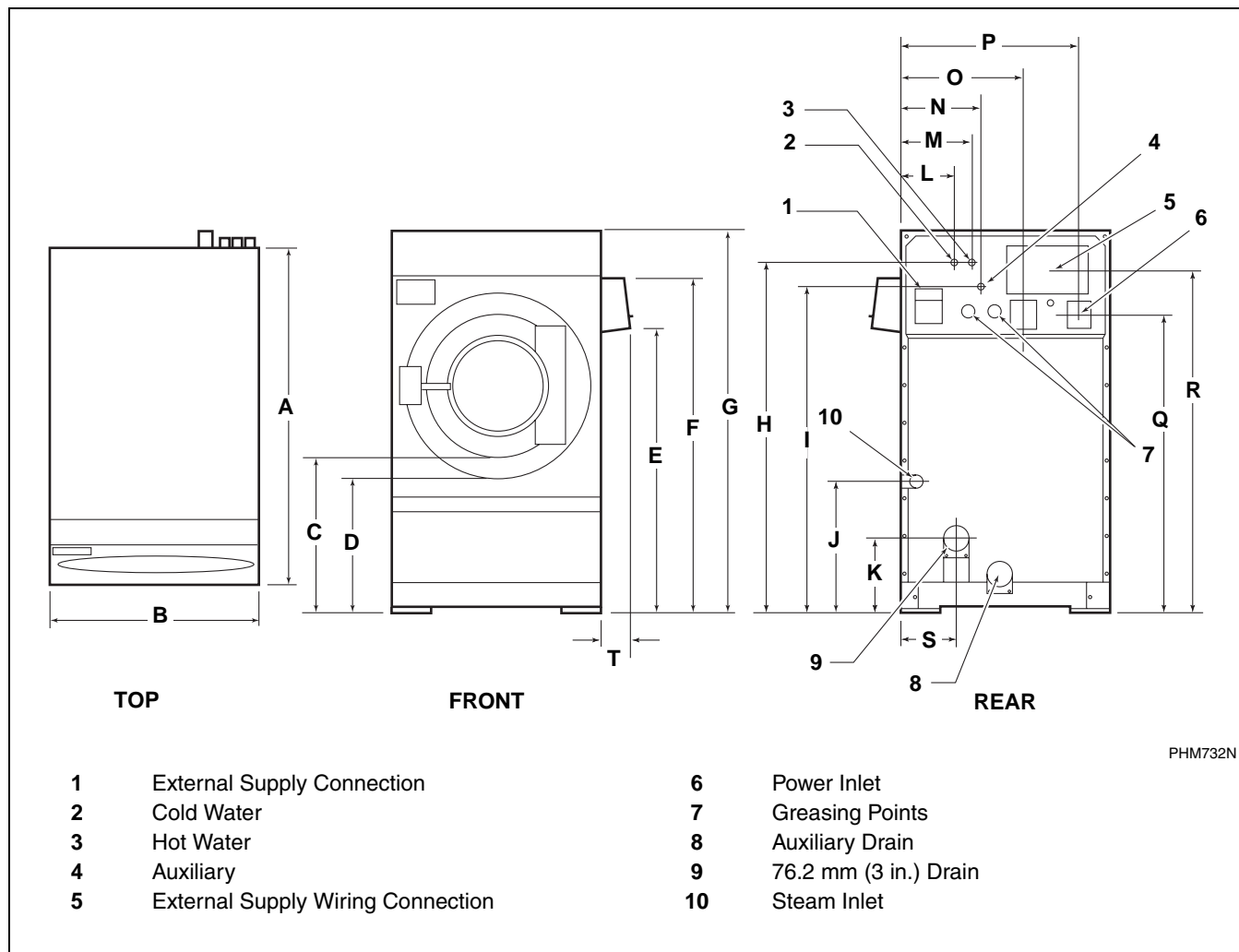


Figure 6

<b>A</b>	1502 mm (59.1 in.)	<b>K</b>	297 mm (11.7 in.)
<b>B</b>	1275 mm (50.3 in.)	<b>L</b>	305 mm (12 in.)
<b>C</b>	871 mm (34.3 in.)	<b>M</b>	386 mm (15.18 in.)
<b>D</b>	795 mm (31.3 in.)	<b>N</b>	432 mm (17 in.)
<b>E</b>	1473 mm (58 in.)	<b>O</b>	932 mm (36.7 in.)
<b>F</b>	1717 mm (67.6 in.)	<b>P</b>	1150 mm (45.26 in.)
<b>G</b>	2083 mm (82 in.)	<b>Q</b>	1422 mm (56 in.)
<b>H</b>	1798 mm (70.8 in.)	<b>R</b>	1636 mm (64.4 in.)
<b>I</b>	1502 mm (65.7 in.)	<b>S</b>	490 mm (19.3 in.)
<b>J</b>	1158 mm (45.6 in.)	<b>T</b>	152 mm (6 in.)

Table 8

175 Pound Models

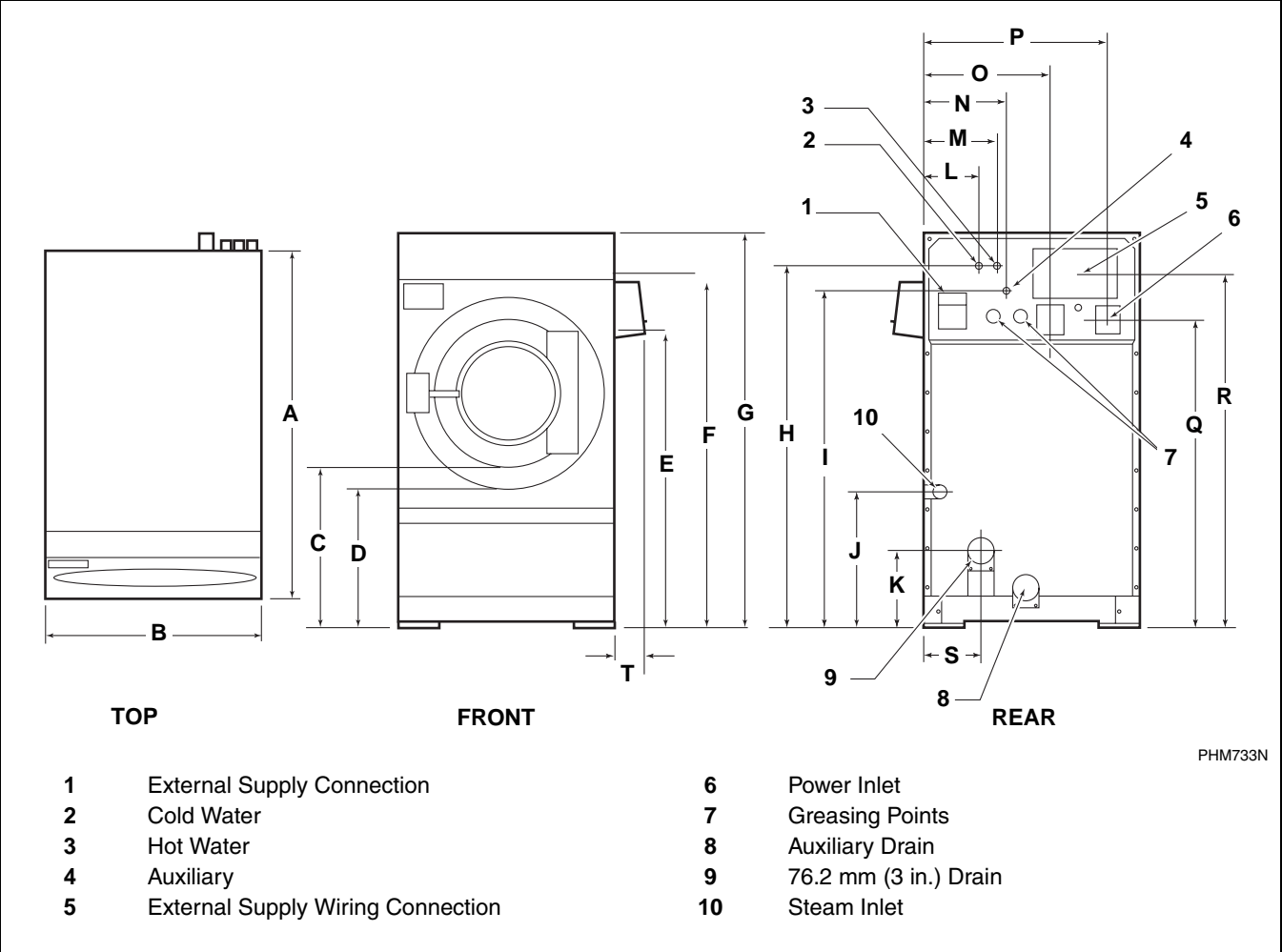


Figure 7

<b>A</b>	1628 mm (64.1 in.)	<b>K</b>	297 mm (11.7 in.)
<b>B</b>	1276 mm (50.3 in.)	<b>L</b>	305 mm (12 in.)
<b>C</b>	871 mm (34.3 in.)	<b>M</b>	386 mm (15.18 in.)
<b>D</b>	795 mm (31.3 in.)	<b>N</b>	432 mm (17 in.)
<b>E</b>	1473 mm (58 in.)	<b>O</b>	932 mm (36.7 in.)
<b>F</b>	1717 mm (67.6 in.)	<b>P</b>	1150 mm (45.26 in.)
<b>G</b>	1958 mm (77.1 in.)	<b>Q</b>	1422 mm (56 in.)
<b>H</b>	1798 mm (70.8 in.)	<b>R</b>	1636 mm (64.4 in.)
<b>I</b>	1658 mm (65.3 in.)	<b>S</b>	490 mm (19.3 in.)
<b>J</b>	1155 mm (45.5 in.)	<b>T</b>	152 mm (6 in.)

Table 9

## Front and Rear Features

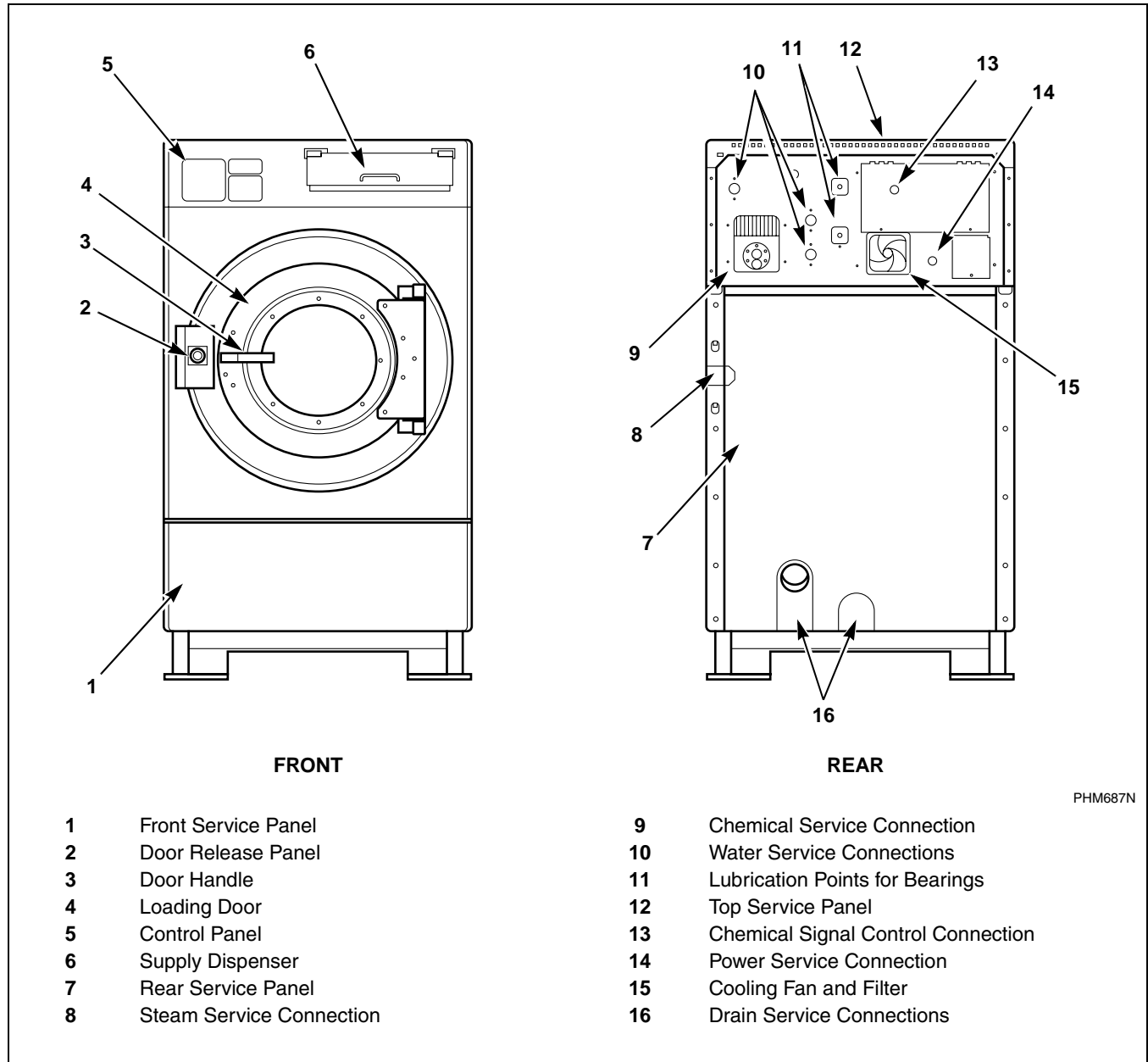


Figure 8

## Floor Load Data

Machine Size	Basket Diameter	Net Wt. of Machine (lbs.)	Height of Basket Center (in.)	Max RPM	G Calculated	Static Load (lbs.)	Static Floor Pressure (lbs./ft. <sup>2</sup> )	Dynamic Load (lbs.)	Max Vertical Load (lbs.)	Max Dynamic Floor Pressure (lbs./ft. <sup>2</sup> )	Base Moment (lbs./ft.)	Load Freq (Hz)
<b>40M 100G</b>	27	1583	33.35	511	100	1701	179	786	2440	256.8	2185	8.52
<b>40M 150G</b>	27	1583	33.35	625	149.6	1701	179	706	2359	248.3	1961	10.42
<b>40H 230G</b>	27	1690	33.35	775	230	1808	190.3	1808	3569	375.7	5025	12.92
<b>40H 300G</b>	27	1690	33.35	885	300	1808	190.3	1415	3175	334.2	3931	14.75
<b>60M 100G</b>	31	1627	37.2	477	100	1807	170.9	1201	2936	277.7	3722	7.95
<b>60M 150G</b>	31	1627	37.2	585	150.5	1807	170.9	1083	2818	266.6	3359	9.75
<b>60H 230G</b>	31	1795	37.2	723	229.9	1975	186.8	2758	4661	440.9	8551	125
<b>60H 300G</b>	31	1795	37.2	826	300	1975	186.8	2160	4063	384.3	6696	13.77
<b>80M 100G</b>	37	1766	40	437	100.2	2011	139.2	1636	3549	245.7	5452	7.28
<b>80M 150G</b>	37	1766	40	535	150.2	2011	139.2	1471	3384	234.3	4903	8.92
<b>80H 230G</b>	37	1926	40	662	230	2171	150.3	3754	5826	403.5	12512	11.03
<b>80H 300G</b>	37	1926	40	756	300	2171	150.3	2937	5010	346.9	9791	12.6
<b>100M 100G</b>	37	2007	40.3	437	100.2	2310	145.1	2025	4213	264.7	6799	7.28
<b>100M 150G</b>	37	2007	40.3	535	150.2	2310	145.1	1821	4009	251.9	6114	8.52
<b>100H 230G</b>	37	2167	40.3	662	230	2470	155.2	4646	6995	439.4	15603	11.03
<b>100H 300G</b>	37	2167	40.3	756	300	2470	155.2	3635	5984	375.9	2209	12.6

Table10 (continued)

Table10 (continued)

Machine Size	Basket Diameter	Net Wt. of Machine (lbs.)	Height of Basket Center (in.)	Max RPM	G Calculated	Static Load (lbs.)	Static Floor Pressure (lbs./ft. <sup>2</sup> )	Dynamic Load (lbs.)	Max Vertical Load (lbs.)	Max Dynamic Floor Pressure (lbs./ft. <sup>2</sup> )	Base Moment (lbs./ft.)	Load Freq (Hz)
<b>125H 200G</b>	43	2749	46.5	573	200.3	3124	165.8	5006	7980	423.6	19400	9.55
<b>125H 300G</b>	43	2749	46.5	701	299.7	3124	165.8	4496	7470	396.5	17421	11.68
<b>140M 100G</b>	43	2749	46.8	405	100	3174	155.5	2835	5839	286	11057	6.75
<b>140M 150G</b>	43	2749	46.8	500	152.5	3174	155.5	2593	5597	274.2	10112	8.33
<b>140H 200G</b>	43	3027	46.8	573	200.3	3452	169.1	5675	8957	438.8	22134	9.55
<b>140H 250G</b>	43	3027	46.8	640	249.8	3452	169.1	4248	7530	368.9	16567	10.67
<b>175H 200G</b>	43	3450	46.8	573	200.3	3975	166.6	7009	10774	451.5	27335	9.56
<b>175H 250G</b>	43	3450	46.8	640	249.8	3975	166.6	5246	9011	377.6	20461	10.67

Table 10

## Installation Instructions

### Surface

These machines must be securely anchored on a solid, flat reinforced concrete surface capable of withstanding the weight of the machine and the considerable forces generated during the spin/extract cycle. Surface should be a high quality concrete (minimum 3500 psi test strength) and at least 305 mm (12 in.) thickness for all models. The surface shall be clean, flat and free of irregularities. The pad should be 305 mm (12 in.) larger than the footprint of the machine on all sides, beveling out towards the bottom of the pad.

### Anchors

The use of “Hilti” brand, or equivalent expansion bolt, chemical adhesive anchor, or “J” bolts is recommended for installing washer-extractors.

## Mounting



### WARNING

- **Always mount this machine on a solid, stable ground floor.**
- **Never install a hard mount washer-extractor on an above ground floor or over a basement.**
- **Never use any material between the machine and floor except grout. The use of rubber pads, neoprene or other materials will make the installation unsafe, noisy and will void all warranties.**

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### *On Metal Base*

**Installation on a raised metal base is not recommended.**

### *On Concrete*

When mounting directly to concrete floor, position machine being sure to allow for clearances. Mark and drill holes as dictated by anchoring method and anchor types used. Reposition machine over holes. Raise machine 12.7 mm – 19 mm (1/2 in. – 3/4 in.) to allow for grouting. Install anchors in place but do not tighten. Using a high quality machinery grout, force grout between concrete surface and base until all voids are filled. Before grout has set and become stiff, carefully lower machine into web grout. When grout is fully hardened, install lock washers and nuts on anchors. Tighten nuts in even increments using a diagonal pattern. After machine has been in place and operated for one day, retighten anchors in same manner as before.

## Mounting Bolt Installation Requirements

### Location

Plan the location of the machines. When placing machines consider the following:

- The loading door is easily accessible to your workers and does not interfere with other equipment such as dryers or adjacent washers (door swings open 180 degrees). Make sure that the machine does not block emergency exits, open doors, work traffic paths, etc.
- There is adequate clearance in front of the machine for workers and laundry carts or to remove the basket.
- There is clearance behind and above the machine to remove the rear and top service panels to safely perform periodic maintenance. Always check local codes. Refer to **Clearances** section.

All machine dimensions are subject to manufacturing tolerances and design revisions. All specifications are subject to change without notice. If precise machine dimensions are required for construction, consult the manufacturer for verification.

All washer-extractors must be mounted using high strength machinery anchor bolts in 24000 N/m<sup>2</sup> (3500 psi) reinforced concrete. The concrete is to be a minimum of 305 mm (12 in.) thick over 610 mm (24 in.) of compacted fill dirt. The pad should be 305 mm (12 in.) larger than the footprint of the machine on all sides, beveling out towards the bottom of the pad.

### Clearances

When installing the washer-extractor it is important to allow adequate clearance on all sides of the machine. If multiple machines are installed, observe the minimum clearance allowed between machines. Refer to *Figure 9*.

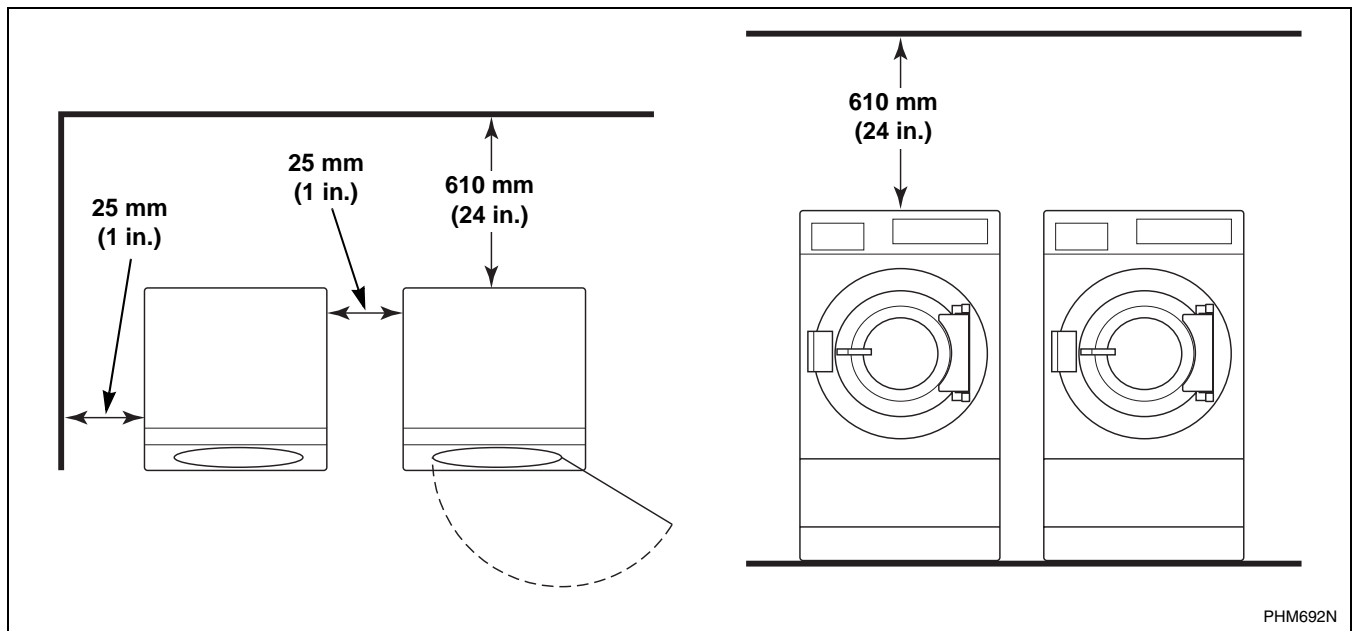


Figure 9



40 Pound Models

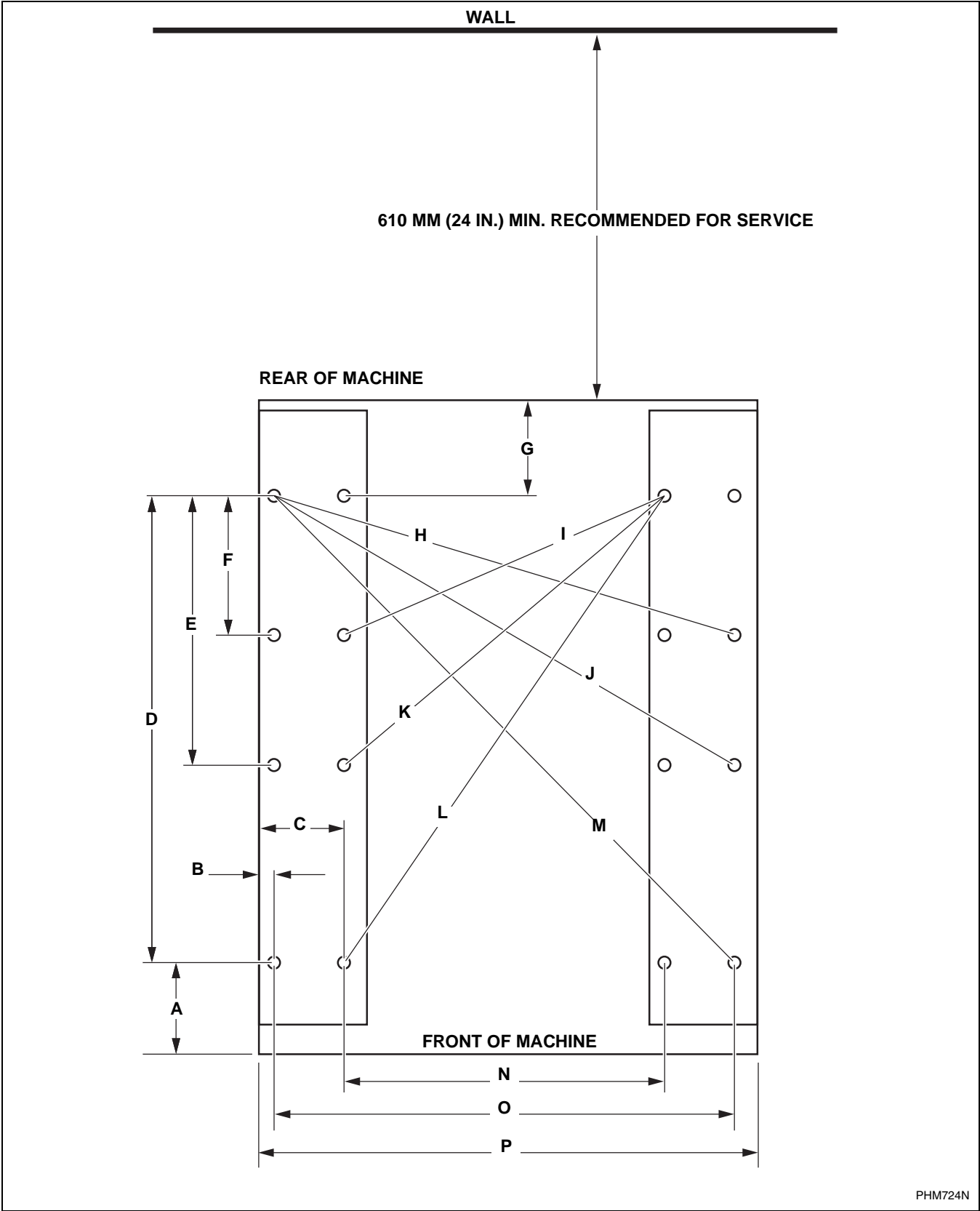


Figure 10

## Installation/Operation Supplement

40 Pound			
<b>A</b>	156 mm (6.125 in.)	<b>I</b>	581 mm (22.88 in.)
<b>B</b>	25 mm (1 in.)	<b>J</b>	883 mm (34.75 in.)
<b>C</b>	140 mm (5.5 in.)	<b>K</b>	694 mm (27.31 in.)
<b>D</b>	775 mm (30.5 in.)	<b>L</b>	940 mm (37 in.)
<b>E</b>	445 mm (17.5 in.)	<b>M</b>	1087 mm (42.81 in.)
<b>F</b>	229 mm (9 in.)	<b>N</b>	533 mm (21 in.)
<b>G</b>	156 mm (6.13 in.)	<b>O</b>	762 mm (30 in.)
<b>H</b>	795 mm (31.31 in.)	<b>P</b>	813 mm (32 in.)

Table 11

60, 80 and 100 Pound Models

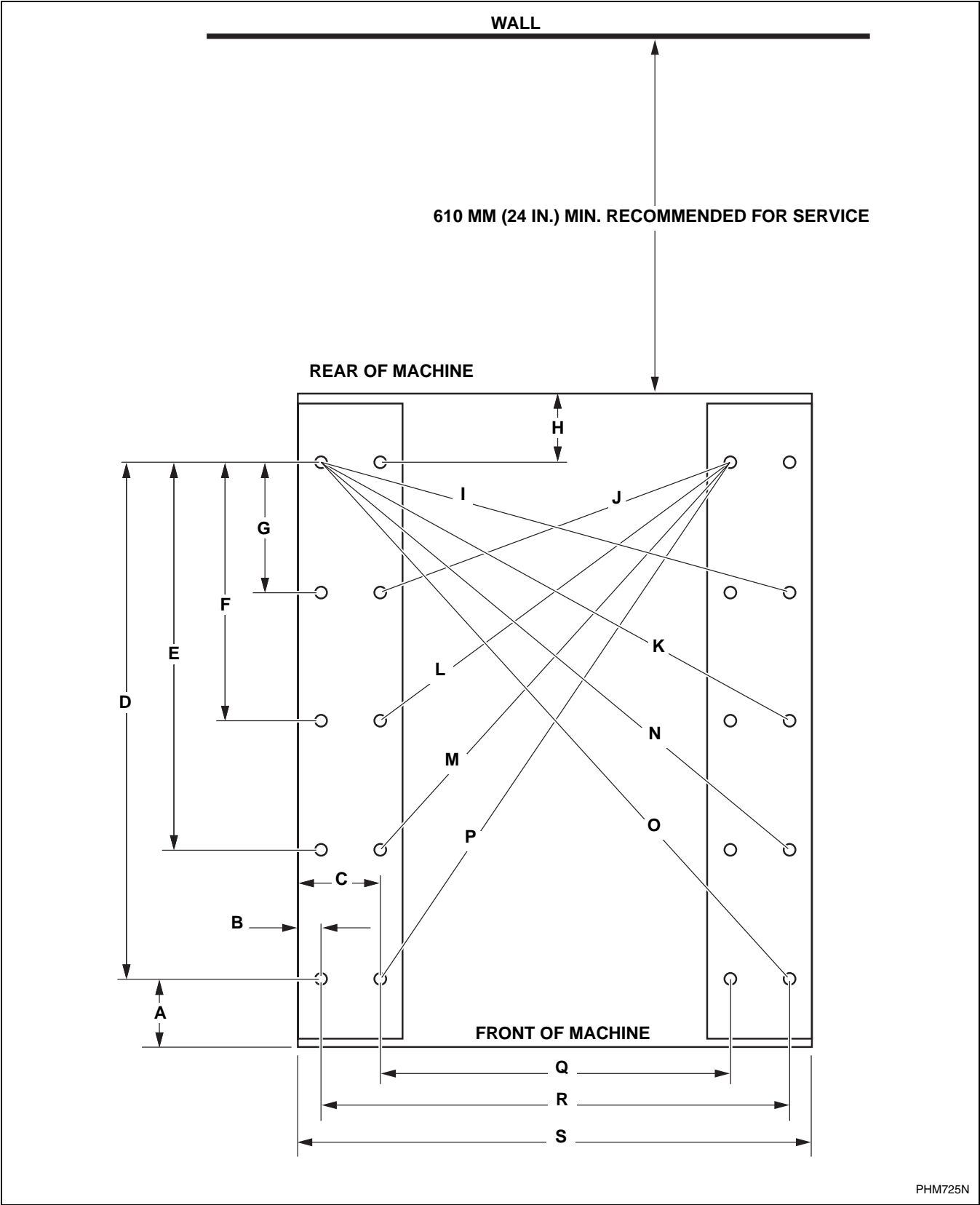


Figure 11

	<b>60 Pound</b>	<b>80 Pound</b>	<b>100 Pound</b>
<b>A</b>	116 mm (4.56 in.)	67 mm (2.63 in.)	194 mm (7.63 in.)
<b>B</b>	38 mm (1.5 in.)	38 mm (1.5 in.)	38 mm (1.5 in.)
<b>C</b>	140 mm (5.5 in.)	178 mm (7 in.)	178 mm (7 in.)
<b>D</b>	889 mm (35 in.)	1054 mm (41.5 in.)	1054 mm (41.5 in.)
<b>E</b>	667 mm (26.25 in.)	838 mm (33 in.)	838 mm (33 in.)
<b>F</b>	445 mm (17.5 in.)	559 mm (22 in.)	559 mm (22 in.)
<b>G</b>	222 mm (8.75 in.)	279 mm (11 in.)	279 mm (11 in.)
<b>H</b>	116 mm (4.56 in.)	122 mm (4.81 in.)	122 mm (4.81 in.)
<b>I</b>	8.30 mm (32.69 in.)	1041 mm (41 in.)	1041 mm (41 in.)
<b>J</b>	637 mm (25.6 in.)	776 mm (30.56 in.)	776 mm (30.56 in.)
<b>K</b>	916 mm (36.6 in.)	1148 mm (45.19 in.)	1148 mm (45.19 in.)
<b>L</b>	744 mm (29.31 in.)	914 mm (36 in.)	914 mm (36 in.)
<b>M</b>	895 mm (35.25 in.)	1108 mm (43.63 in.)	1108 mm (43.63 in.)
<b>N</b>	1041 mm (41 in.)	1030 mm (51.5 in.)	1308 mm (51.5 in.)
<b>O</b>	1195 mm (47.06 in.)	1456 mm (57.31 in.)	1456 mm (57.31 in.)
<b>P</b>	1072 mm (42.19 in.)	1280 mm (50.38 in.)	1280 mm (50.38 in.)
<b>Q</b>	597 mm (23.5 in.)	724 mm (28.5 in.)	724 mm (28.5 in.)
<b>R</b>	800 mm (31.5 in.)	1003 mm (39.5 in.)	1003 mm (39.5 in.)
<b>S</b>	876 mm (34.5 in.)	1080 mm (42.5 in.)	1080 mm (42.5 in.)

Table 12

125, 140 and 175 Pound Models

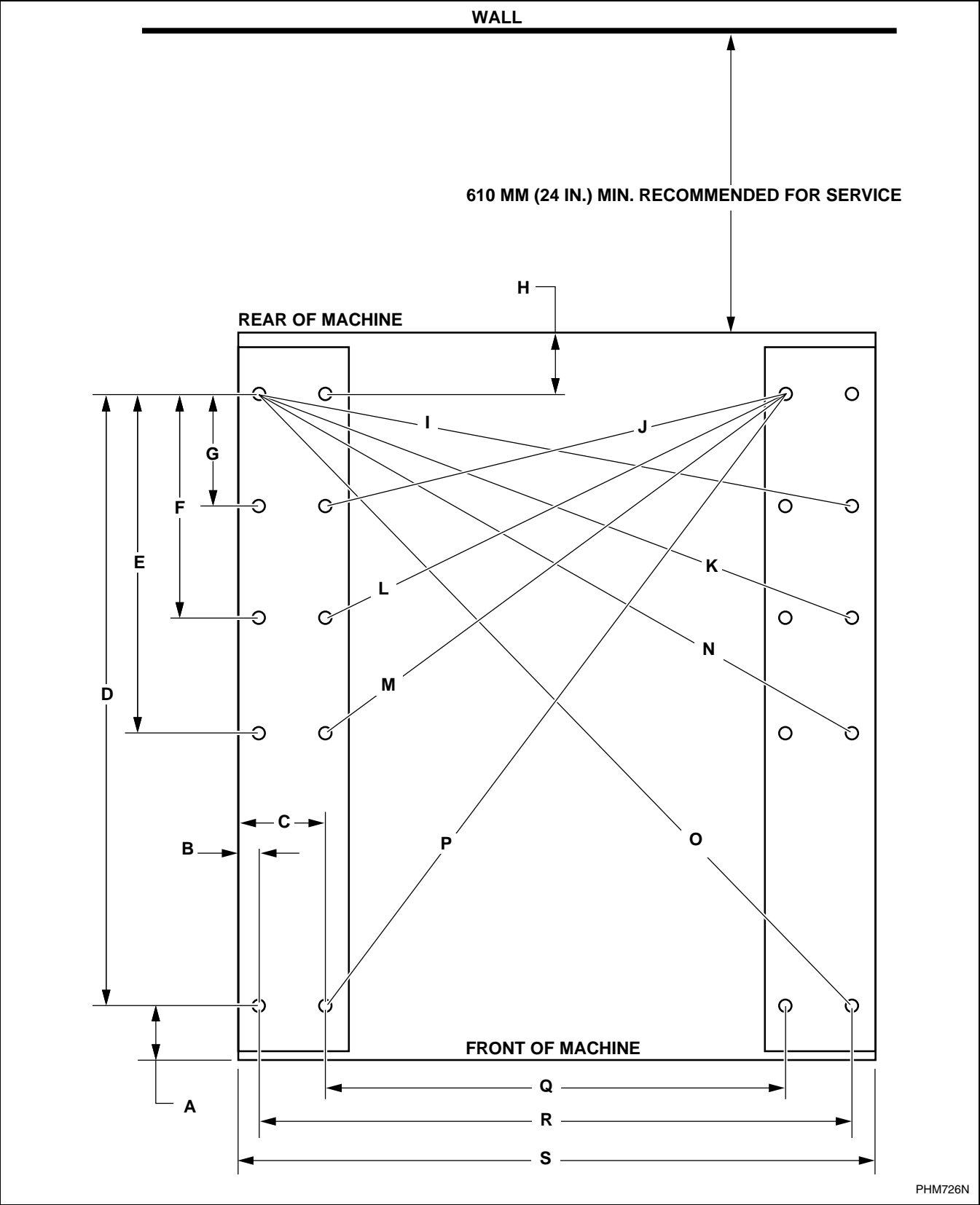


Figure 12

	<b>125 Pound</b>	<b>140 Pound</b>	<b>175 Pound</b>
<b>A</b>	102 mm (4 in.)	118 mm (4.63 in.)	118 mm (4.63 in.)
<b>B</b>	38 mm (1.5 in.)	38 mm (1.5 in.)	38 mm (1.5 in.)
<b>C</b>	178 mm (7 in.)	178 mm (7 in.)	178 mm (7 in.)
<b>D</b>	1207 mm (47.5 in.)	1245 mm (49 in.)	1496 mm (58.88 in.)
<b>E</b>	686 mm (27 in.)	686 mm (27 in.)	810 mm (31.88 in.)
<b>F</b>	457 mm (18 in.)	457 mm (18 in.)	581 mm (22.88 in.)
<b>G</b>	229 mm (9 in.)	229 mm (9 in.)	353 mm (13.88 in.)
<b>H</b>	89 mm (3.5 in.)	124 mm (4.88 in.)	124 mm (4.88 in.)
<b>I</b>	1223 mm (48.13 in.)	1223 mm (48.13 in.)	1223 mm (48.13 in.)
<b>J</b>	949 mm (37.38 in.)	949 mm (37.38 in.)	949 mm (37.38 in.)
<b>K</b>	1284 mm (50.56 in.)	1284 mm (50.56 in.)	1284 mm (50.56 in.)
<b>L</b>	1029 mm (40.5 in.)	1029 mm (40.5 in.)	1029 mm (40.5 in.)
<b>M</b>	1148 mm (45.19 in.)	1148 mm (45.19 in.)	1148 mm (45.19 in.)
<b>N</b>	1383 mm (54.44 in.)	1383 mm (54.44 in.)	1383 mm (54.44 in.)
<b>O</b>	1702 mm (67 in.)	1729 mm (68.06 in.)	1822 mm (71.75 in.)
<b>P</b>	1518 mm (59.75 in.)	1548 mm (60.94 in.)	1653 mm (65.06 in.)
<b>Q</b>	921 mm (36.25 in.)	921 mm (36.25 in.)	921 mm (36.25 in.)
<b>R</b>	1200 mm (47.25 in.)	1200 mm (47.25 in.)	1200 mm (47.25 in.)
<b>S</b>	1276 mm (50.25 in.)	1276 mm (50.25 in.)	1276 mm (50.25 in.)

Table 13

## Provisions for 50 Hz Installations

If machine is to be installed on a 50 Hz power system, adjust control transformer taps as described in **Installation** manual. Then change drain valve wiring as follows:

1. Disconnect power from machine. Follow lock-out/tag-out procedures.
2. Remove lower rear panel to access drain valves.
3. Snap black plastic cover off of each drain valve motor by locating and squeezing two tabs on each cover.
4. On each drain valve motor there are three terminals (labeled 60 Hz, 50 Hz and N). Locate these terminals.
5. On each drain valve motor, move wire from 60 Hz tap to 50 Hz tap. There should be wires on 50 Hz terminal and N terminal.
6. Reinstall black plastic motor covers.
7. Reinstall rear panel.
8. Reconnect power to machine.

**NOTE: If proper tap on drain valve motor is not selected it will run hot and will be damaged.**

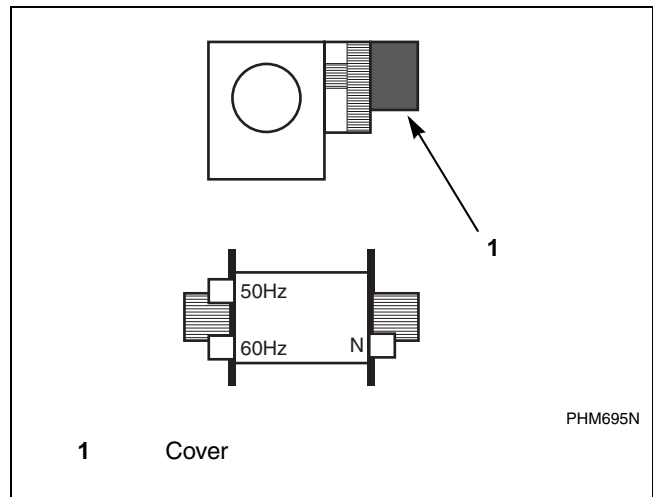


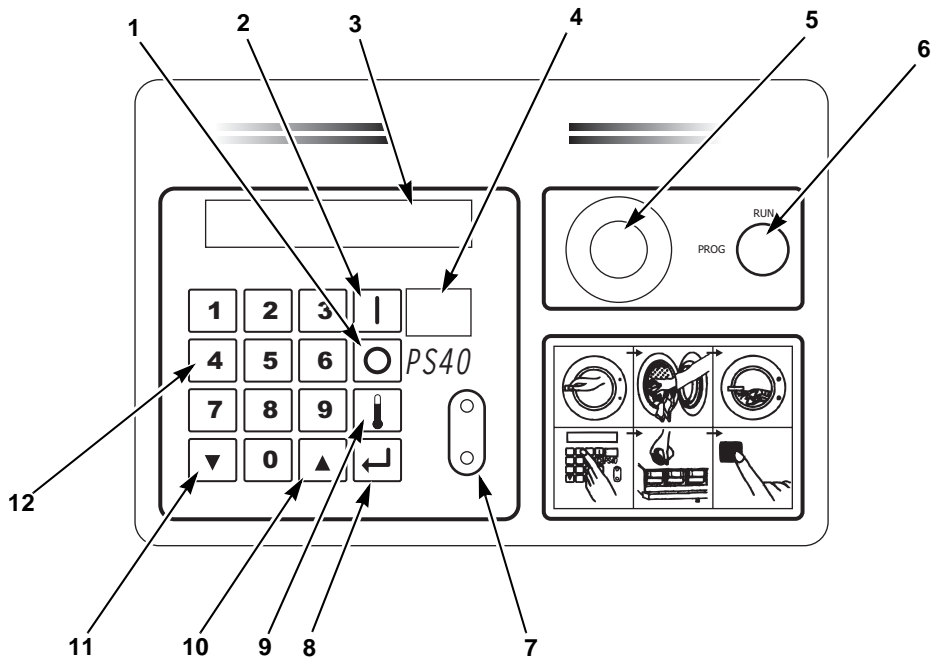
Figure 13

Pocket Hardmount Electrical Specifications													
Voltage Designation						Standard				Electric Heat			
Model	Code	Voltage	Cycle	Phase	Wire	Full Load Amps	Breaker	AWG	mm <sup>2</sup>	Full Load Amps	Breaker	AWG	mm <sup>2</sup>
40H	N	380 – 480	50/60	3	3	4	15	14	2.5	29	35	8	10
	Q	200 – 240	50/60	3	3	8	15	14	2.5	56	60	6	16
60H	N	380 – 480	50/60	3	3	6	15	14	2.5	29	35	8	10
	Q	200 – 240	50/60	3	3	11	15	14	2.5	84	90	3	25
80H	N	380 – 480	50/60	3	3	8	15	14	2.5	31	35	8	10
	Q	200 – 240	50/60	3	3	15	20	12	4	87	110	2	35
100H	N	380 – 480	50/60	3	3	8	15	14	2.5	32	40	8	10
	Q	200 – 240	50/60	3	3	15	20	12	4	88	110	2	35
125H	N	380 – 480	50/60	3	3	10	15	14	2.5	Not Available			
	Q	200 – 240	50/60	3	3	19	30	10	6				
140H	N	380 – 480	50/60	3	3	11	15	14	2.5	Not Available			
	Q	200 – 240	50/60	3	3	20	30	10	6				
175H	N	380 – 480	50/60	3	3	15	20	12	4	Not Available			
40M	N	380 – 480	50/60	3	3	3	15	14	2.5	29	35	8	10
	Q	200 – 240	50/60	3	3	5	15	14	2.5	56	60	6	16
60M	N	380 – 480	50/60	3	3	5	15	14	2.5	29	35	8	10
	Q	200 – 240	50/60	3	3	9	15	14	2.5	84	90	3	25
80M	N	380 – 480	50/60	3	3	6	15	14	2.5	31	35	8	10
	Q	200 – 240	50/60	3	3	11	15	14	2.5	87	110	2	35
100M	N	380 – 480	50/60	3	3	7	15	14	2.5	32	40	8	10
	Q	200 – 240	50/60	3	3	12	15	14	2.5	88	110	2	35
140M	N	380 – 480	50/60	3	3	8	15	14	2.5	Not Available			
	Q	200 – 240	50/60	3	3	16	20	12	4				
NOTE: Wire-size based on: NFPA 70 (NEC), Table 310.16, 75°C Column. No more than three current carrying conductors per raceway. Use copper conductors only. Use three-phase breakers only. Do not use fuses or single-phase breakers. Suggested breaker size based on NFPA 70, Section 240.6. Contact local authority having jurisdiction for additional information. Local electrical codes supersede all suggestions of this table. Follow all local electrical codes. Local is defined as place of machine installation.													

Table 14



# Operation



PHM1398C

- |   |                              |    |                            |
|---|------------------------------|----|----------------------------|
| 1 | Stop Button                  | 7  | Infra-Red Programming Port |
| 2 | Start Button                 | 8  | Enter Button               |
| 3 | Main Display                 | 9  | Temperature/Toggle Button  |
| 4 | Program Number/Alarm Display | 10 | Up Button                  |
| 5 | Emergency Stop Button        | 11 | Down Button                |
| 6 | Run/Program Mode Key Switch  | 12 | Number Buttons             |

Figure 14

## General Operation Instructions

1. Make sure machine has been installed properly and that water and electrical services are on.
2. Sort laundry according to care labels, type, etc.
3. Open door and make sure that machine is empty.
4. Load goods to be processed into drum.
5. Close and lock door securely by pushing in on door handle – it should click twice.
6. Open supply dispenser, slide out dispenser cups one at a time and fill with appropriate chemicals. Replace cups.
7. Close supply dispenser door.
8. Enter number of desired program. Refer to **Operating PS40 Control** section. Programs 0 – 9 have been preprogrammed at factory for typical conditions. Preprogrammed formulas may vary, so a **Programming** manual will be provided to document preprogrammed formulas.
9. Press START button on control.
10. Machine door will automatically lock and selected formula will be executed.
11. When program is completed, display will show message “open door” and door will automatically be unlocked.
12. Open door by pushing door release panel and remove all goods.



### WARNING

**Never use flammable materials of any kind in the machine! Never use any solvent other than water!**

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## Operating PS40 Control

### Running a Program:

1. Make sure loading door is closed and locked.
2. Enter 2 digit program number corresponding to desired program.
3. Press START button.

### Stopping a Program:

1. Press STOP button and wait for door to be unlocked.
2. Open loading door.
3. Close loading door.
4. Press STOP button – program will be aborted.
5. Open and close loading door again and program will be cleared and aborted. Display will return to “Start”.

### Fast Advancing a Program:

1. Press and hold ENTER button and program time will advance.
2. When program time pauses, release ENTER button. To continue to end of program, continue holding ENTER button.

When PS40 Control fast advances it will pause whenever it comes to beginning of a drain or agitation routine.

Display bath temperature and cylinder speed:

1. Press TEMPERATURE/TOGGLE button and current temperature is displayed.
2. Press TEMPERATURE/TOGGLE button again and target temperature is displayed.
3. Press TEMPERATURE/TOGGLE button again and current cylinder RPM is displayed.
4. Display will revert to program status display after a few seconds.

**Clearing an Alarm:**

1. Note alarm code flashing on program display in order to look it up and correct problem.
2. Press ENTER button and display will be cleared. PS40 control will continue running normally.

An alarm code indicates a potential machine problem or condition that should be examined.

**Clearing a Fault:**

1. Note fault code flashing on program display in order to look it up and explain problem to a qualified technician.
2. Wait until machine has stopped and door is unlocked.
3. Open door.
4. Press E-Stop button or disconnect main electrical service to machine.
5. Call a qualified service technician.
6. When power is restored fault will be cleared and PS40 control will attempt to run again.

**Tips:**

- Always try to load machine as fully as possible. Small loads are generally harder on any front loading washer and cannot be processed as efficiently. They use more water per pound and more electrical energy.
- Use appropriate low sudsing detergents and chemicals.
- If a power failure interrupts machine during a program, program can be resumed where it was interrupted when power is restored by pressing START button on control.
- To add goods after a program has been started, press STOP button. After machine has drained and is safe, it will unlock door. Open door and add additional goods to be processed. Close door and press START button to restart program where it left off.
- If wrong program number is accidentally entered, control will allow you to reenter it and change program being run for up to 3 minutes.

**WARNING**

**The PS40's fault codes indicate potentially hazardous operating conditions. If a Fault occurs the machine should be shut off and locked out until a service technician can repair the machine. All fault codes are indicated by a flashing "Fn" display. Where F indicates a fault condition, and n indicates the particular fault number.**

W687

## Disposal of Unit

This appliance is marked according to the European directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE).

This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Refer to *Figure 15*. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. Ensuring this product is disposed of correctly will help prevent potential negative consequences for the environment and human health which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact the local city office, household waste disposal service, or the source from which the product was purchased.

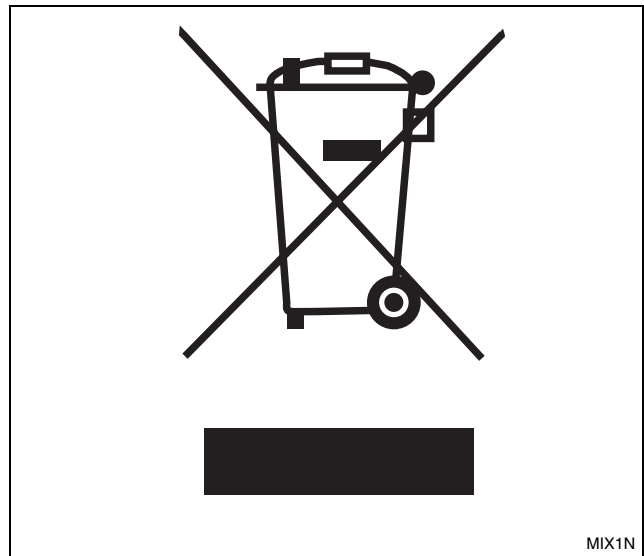


Figure 15